

FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

501297.01

APPLICATION NO.

10/645,288

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)

Ralph James

FILING DATE

August 20, 2003

GROUP ART UNIT

~~2186~~ 2189

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RIF	AA	6,462,978 B2	10/08/02	Shibata et al.	365	63	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AK							
	AL							
	AM							
	AN							
	AO							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER

R. ELMORE

DATE CONSIDERED

2-13. 2006

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## INFORMATIONAL CLOSURE STATEMENT

(Use several sheets if necessary)

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
RIE	AA	4,240,143	12/16/80	Besemer et al.	364	200	
RIE	AB	4,245,306	01/13/81	Besemer et al.	364	200	
RIE	AC	4,253,144	02/24/81	Bellamy et al.	364	200	
RIE	AD	4,253,146	02/24/81	Bellamy et al.	364	200	
RIE	AE	4,707,823	11/17/87	Holdren et al.	370	1	
RIE	AF	4,724,520	02/09/88	Athanas et al.	364	200	
RIE	AG	4,930,128	05/29/90	Suzuki et al.	371	12	
RIE	AH	5,241,506	08/31/93	Motegi et al.	365	210	
RIE	AI	5,243,703	09/07/93	Farmwald et al.	395	325	
RIE	AJ	5,269,022	12/07/93	Shinjo et al.	395	700	
RIE	AK	5,317,752	05/31/94	Jewett et al.	395	750	
RIE	AL	5,319,755	06/07/94	Farmwald et al.	395	325	
RIE	AM	5,355,391	10/11/94	Horowitz et al.	375	36	
RIE	AN	5,432,823	07/11/95	Gasbarro et al.	375	356	
RIE	AO	5,461,627	10/24/95	Rypinski	370	95.2	
RIE	AP	5,465,229	11/07/95	Bechtolsheim et al.	345	477	
RIE	AQ	5,502,621	03/26/96	Schumacher et al.	361	760	
RIE	AR	5,566,325	10/15/96	Bruce, II et al.	395	494	
RIE	AS	5,577,220	11/19/96	Combs et al.	395	416	
RIE	AT	5,581,767	12/03/96	Katsuki et al.	395	800	
RIE	AU	5,606,717	02/25/97	Farmwald et al.	395	856	
RIE	AV	5,638,334	06/10/97	Farmwald et al.	365	230.03	
RIE	AW	5,715,456	02/03/98	Bennett et al.	395	652	
RIE	AX	5,819,304	10/06/98	Nilsen et al.	711	5	
RIE	AY	5,832,250	11/03/98	Whittaker	395	471	

EXAMINER

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		FILING DATE August 20, 2003	GROUP ART UNIT <del>2189</del> 2189

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
R/E	AZ	5,928,343	07/27/99	Farmwald et al.	710	104	
R/E	BA	5,966,724	10/12/99	Ryan	711	105	
R/E	BB	5,973,935	10/26/99	Schoenfeld et al.	361	813	
R/E	BC	5,973,951	10/26/99	Bechtolsheim et al.	365	52	
R/E	BD	5,978,567	11/02/99	Rebane et al.	395	200.49	
R/E	BE	6,023,726	02/08/00	Saksena	709	219	
R/E	BF	6,029,250	02/22/00	Keeth	713	400	
R/E	BG	6,061,296	05/09/00	Ternullo, Jr. et al.	365	233	
R/E	BH	6,098,158	08/01/00	Lay et al.	711	162	
R/E	BI	6,125,431	09/26/00	Kobayashi	711	154	
R/E	BJ	6,175,571 B1	01/16/01	Haddock et al.	370	423	
R/E	BK	6,185,352 B1	02/06/01	Hurley	385	114	
R/E	BL	6,191,663 B1	02/20/01	Hannah	333	17.3	
R/E	BM	6,247,107 B1	06/12/01	Christie	711	216	
R/E	BN	6,249,802 B1	06/19/01	Richardson et al.	709	200	
R/E	BO	6,294,937 B1	09/25/01	Crafts et al.	327	158	
R/E	BP	6,370,068 B2	04/09/02	Rhee	365	196	
R/E	BQ	6,401,213 B1	06/04/02	Jeddeloh	713	401	
R/E	BR	6,405,280 B1	06/11/02	Ryan	711	105	
R/E	BS	6,430,696 B1	08/06/02	Keeth	713	503	
R/E	BT	6,434,696 B1	08/13/02	Kang	713	2	
R/E	BU	6,434,736 B1	08/13/02	Schaecher et al.	716	17	
R/E	BV	6,438,622 B1	08/20/02	Haghighi et al.	710	1	
R/E	BW	6,449,308 B1	09/10/02	Knight, Jr. et al.	375	212	

EXAMINER  R. ELMORE	DATE CONSIDERED  2-13-2006
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
R/E	BX	6,453,393 B1	09/17/02	Holman et al.	711	154	
R/E	BY	6,479,322 B2	11/12/02	Kawata et al.	438	109	
R/E	BZ	6,490,188 B2	12/03/02	Nuxoll et al.	365	63	
R/E	CA	6,501,471 B1	12/31/02	Venkataraman et al.	345	424	
R/E	CB	6,594,722 B1	07/15/03	Willke, II et al.	710	313	
R/E	CC	6,598,154 B1	07/22/03	Vaid et al.	712	237	
R/E	CD	6,615,325 B2	09/02/03	Mailloux et al.	711	154	
R/E	CE	6,628,294 B1	09/30/03	Sadowsky et al.	345	568	
R/E	CF	6,629,220 B1	09/30/03	Dyer	711	158	
R/E	CG	6,646,929 B1	11/11/03	Moss et al.	365	194	
R/E	CH	6,658,509 B1	12/02/03	Bonella et al.	710	100	
R/E	CI	6,662,304 B2	12/09/03	Keeth et al.	713	400	
R/E	CJ	6,667,895 B2	12/23/03	Jang et al.	365	63	
R/E	CK	6,697,926 B2	02/24/04	Johnson et al.	711	167	
R/E	CL	6,718,440 B2	04/06/04	Maiyuran et al.	711	137	
R/E	CM	6,721,195 B2	04/13/04	Brunelle et al.	365	63	
R/E	CN	6,724,685 B2	04/20/04	Braun et al.	365	233	
R/E	CO	6,728,800 B1	04/27/04	Lee et al.	710	54	
R/E	CP	6,735,679 B1	05/11/04	Herbst et al.	711	167	
R/E	CQ	6,735,682 B2	05/11/04	Segelken et al.	711	220	
R/E	CR	6,745,275 B2	06/01/04	Chang	710	305	
R/E	CS	6,751,703 B2	06/15/04	Chilton	711	113	
R/E	CT	6,754,812 B1	06/22/04	Abdallah et al.	712	234	
R/E	CU	6,756,661 B2	06/29/04	Tsuneda et al.	257	673	
R/E	CV	6,760,833 B1	07/06/04	Dowling	712	34	

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
R/E	CW	6,771,538 B2	08/03/04	Shukuri et al.	365	185.05	
R/E	CX	6,775,747 B2	08/10/04	Venkatraman	711	137	
R/E	CY	6,789,173 B1	09/07/04	Tanaka et al.	711	147	
R/E	CZ	6,792,059 B2	09/14/04	Yuan et al.	375	354	
R/E	DA	6,792,496 B2	09/14/04	Aboulenein et al.	710	306	
R/E	DB	6,795,899 B2	09/21/04	Dodd et al.	711	137	
R/E	DC	6,799,246 B1	09/28/04	Wise et al.	711	117	
R/E	DD	6,799,268 B1	09/28/04	Boggs et al.	712	228	
R/E	DE	6,804,760 B2	10/12/04	Williams	711	170	
R/E	DF	6,804,764 B2	10/12/04	LaBerge et al.	711	170	
R/E	DG	6,807,630 B2	10/19/04	Lay et al.	713	2	
R/E	DH	6,816,947 B1	11/09/04	Huffman	711	151	
R/E	DI	6,820,181 B2	11/16/04	Jeddeloh et al.	711	169	
R/E	DJ	6,823,023 B1	11/23/04	Hannah	375	296	
R/E	DK	2001/0039612 A1	11/08/01	Lee	713	2	
R/E	DL	2002/0116588 A1	08/22/02	Beckert et al.	711	161	
R/E	DM	2003/0043158 A1	03/06/03	Wasserman et al.	345	545	
R/E	DN	2003/0093630 A1	05/15/03	Richard et al.	711	154	
R/E	DO	2003/0163649 A1	08/28/03	Kapur et al.	711	146	
R/E	DP	2003/0177320 A1	09/18/03	Sah et al.	711	158	
R/E	DQ	2003/0193927 A1	10/16/03	Hronik	370	351	
R/E	DR	2004/0022094 A1	02/05/04	Radhakrishnan et al.	365	200	
	DS						
	DT						

EXAMINER

R. Elmore

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		FILING DATE August 20, 2003	GROUP ART UNIT <del>218</del> 2189

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
R1E	DU	WO 93/19422	09/30/93	PCT				
R1E	DV	EP0849685A2	06/24/98	EP				
	DW							
	DX							
	DY							

### OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

R1E	DZ	Intel, "Flash Memory PCI Add-In Card for Embedded Systems", Application Note AP-758, September, 1997, pp. i-13.						
R1E	EA	Shanley, T. et al., "PCI System Architecture", Third Edition, Mindshare, Inc., 1995, pp. 24-25.						
	EB							
	EC							
	ED							
	EE							
	EF							
	EG							
	EH							
	EI							

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(See previous pages if necessary)

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
R/E	AA	4,953,930	09/04/90	Ramsey et al.	350	96.11	
R/E	AB	5,987,196	11/16/99	Noble	385	14	
R/E	AC	6,031,241	02/29/00	Silfvast et al.	250	504 R	
R/E	AD	6,076,139	06/13/00	Welker et al.	711	104	
R/E	AE	6,134,624	10/17/00	Burns et al.	710	131	
R/E	AF	6,715,018 B2	03/30/04	Farnworth et al.	710	300	
R/E	AG	6,811,320 B1	11/02/04	Abbott	385	58	
R/E	AH	6,821,029 B1	11/23/04	Grung et al.	385	92	
R/E	AI	2004/0126115 A1	07/01/04	Levy et al.	398	116	
R/E	AJ	2004/0144994 A1	07/29/04	Lee et al.	257	200	
R/E	AK	2005/0071542 A1	03/31/05	Weber et al.	711	105	
	AL						
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
R/E	AN	2001265539 A	09/28/01	Japan (+ English Abstract)			X	
R/E	AO	WO 02/27499 A2	04/04/02	PCT				
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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<b>R/E</b>	AA	6,845,409 B1	01/18/05	Talagala et al.	710	20	
<b>R/E</b>	AB	2003/0149809 A1	08/07/03	Jensen et al.	710	22	
<b>R/E</b>	AC	2004/0236885 A1	11/25/04	Fredriksson et al.	710	100	
	AD						
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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
					YES	NO	

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<b>RIE</b>	AA	4,608,702	08/26/86	Hirzel et al.	375	110	
<b>RIE</b>	AB	4,891,808	01/02/90	Williams	370	112	
<b>RIE</b>	AC	5,748,616	05/05/98	Riley	370	242	
<b>RIE</b>	AD	6,208,180 B1	03/27/01	Fisch et al.	327	141	
<b>RIE</b>	AE	6,889,304 B2	05/03/05	Perego et al.	711	170	
<b>RIE</b>	AF	6,910,109 B2	06/21/05	Holman et al.	711	156	
<b>RIE</b>	AG	2003/0217223 A1	11/20/03	Nino, Jr. et al.	711	105	
<b>RIE</b>	AH	2003/0227798 A1	12/11/03	Pax	365	189.12	
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	AJ						

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EXAMINER INITIAL	CLASS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
R/E	AA	5,327,553	07/05/94	Jewett et al.	395	575	
R/E	AB	5,706,224	01/06/98	Srinivasan et al.	365	49	
R/E	AC	6,131,149	10/10/00	Lu et al.	711	167	
R/E	AD	6,219,725 B1	04/17/01	Diehl et al.	710	26	
R/E	AE	6,286,083 B1	09/04/01	Chin et al.	711	151	
R/E	AF	6,493,803 B1	12/10/02	Pham et al.	711	147	
R/E	AG	6,564,329 B1	05/13/03	Cheung et al.	713	322	
R/E	AH	6,665,202 B2	12/16/03	Lindahl et al.	365	49	
R/E	AI	2004/0044833 A1	03/04/04	Ryan	711	5	
R/E	AJ	2005/0044327 A1	02/24/05	Howard et al.	711	147	

FOREIGN PATENT DOCUMENTS								
	CLASS	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

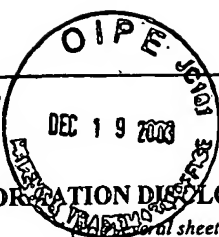
  

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R1E	AA	5,251,303	10/05/93	Fogg, Jr. et al.	395	275	
R1E	AB	5,432,907	07/11/95	Picazo, Jr. et al.	395	200	
R1E	AC	5,442,770	08/15/95	Barratt	395	403	
R1E	AD	5,497,476	03/05/96	Oldfield et al.	395	439	
R1E	AE	5,659,798	08/19/97	Blumrich et al.	395	846	
R1E	AF	5,875,352	02/23/99	Gentry et al.	395	843	
R1E	AG	6,061,263	05/09/00	Boaz et al.	365	51	
R1E	AH	6,067,262	05/23/00	Irrinki et al.	365	201	
R1E	AI	6,073,190	06/06/00	Rooney	710	56	
R1E	AJ	6,105,075	08/15/00	Ghaffari	710	5	
R1E	AK	6,137,709	10/24/00	Boaz et al.	365	51	
R1E	AL	6,144,587	11/07/00	Yoshida	365	189.05	
R1E	AM	6,167,465	12/26/00	Parvin et al.	710	22	
R1E	AN	6,167,486	12/26/00	Lee et al.	711	120	
R1E	AO	6,201,724 B1	03/13/01	Ishizaki et al.	365	49	
R1E	AP	6,233,376 B1	05/15/01	Updegrove	385	14	
R1E	AQ	6,243,769 B1	06/05/01	Rooney	710	56	
R1E	AR	6,246,618 B1	06/12/01	Yamamoto et al.	365	200	
R1E	AS	6,285,349 B1	09/04/01	Smith	345	147	
R1E	AT	6,301,637 B1	10/09/01	Krull et al.	711	112	
R1E	AU	6,327,642 B1	12/04/01	Lee et al.	711	120	
R1E	AV	6,330,205 B2	12/11/01	Shimizu et al.	365	230.06	
R1E	AW	6,347,055 B1	02/12/02	Motomura	365	189.05	

EXAMINER

R. Elmore

DATE CONSIDERED

2-13-2006

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 501297.01	APPLICATION NO. 10/645,288
<b>INFORMATION DISCLOSURE STATEMENT</b> (Include all sheets if necessary)		APPLICANT(S) Ralph James	
		FILING DATE August 20, 2003	GROUP ART UNIT <del>2189</del> 2189

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
R/E	AX	6,349,363 B2	02/19/02	Cai et al.	711	129	
R/E	AY	6,356,573 B1	03/12/02	Jonsson et al.	372	46	
R/E	AZ	6,367,074 B1	04/02/02	Bates et al.	717	11	
R/E	BA	6,373,777 B1	04/16/02	Suzuki	365	230.03	
R/E	BB	6,381,190 B1	04/30/02	Shinkai	365	230.03	
R/E	BC	6,421,744 B1	07/16/02	Morrison et al.	710	22	
R/E	BD	6,434,639 B1	08/13/02	Haghighi	710	39	
R/E	BE	6,463,059 B1	10/08/02	Movshovich et al.	370	389	
R/E	BF	6,470,422 B2	10/22/02	Cai et al.	711	129	
R/E	BG	6,473,828 B1	10/29/02	Matsui	711	104	
R/E	BH	6,477,614 B1	11/05/02	Leddige et al.	711	5	
R/E	BI	6,477,621 B1	11/05/02	Lee et al.	711	120	
R/E	BJ	6,496,909 B1	12/17/02	Schimmel	711	163	
R/E	BK	6,505,287 B2	01/07/03	Uematsu	711	170	
R/E	BL	6,539,490 B1	03/25/03	Forbes et al.	713	401	
R/E	BM	6,552,564 B1	04/22/03	Forbes et al.	326	30	
R/E	BN	6,587,912 B2	07/01/03	Leddige et al.	711	5	
R/E	BO	6,590,816 B2	07/08/03	Perner	365	200	
R/E	BP	6,594,713 B1	07/15/03	Fuoco et al.	710	31	
R/E	BQ	2002/0112119 A1	08/15/02	Halbert et al.	711	115	
R/E	BR	2003/0043426 A1	03/06/03	Baker et al.	359	109	
R/E	BS						
R/E	BT						
R	BU						

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FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

501297.01

APPLICATION NO.

10/645,288

## INFORMATION DISCLOSURE STATEMENT

(Attach additional sheets if necessary)

APPLICANT(S)

Ralph James

FILING DATE

August 20, 2003

GROUP ART UNIT

~~2185~~ 2189

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BV							
	BW							
	BX							
	BY							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

R1E	BZ	Micron Technology, Inc., "Synchronous DRAM Module 512MB/1GB (x72, ECC) 168-PIN Registered FBGA SDRAM DIMM, Micron Technology, Inc., 2002, pp. 1-23.						
	CA							
	CB							
	CC							
	CD							
	CE							
	CF							
	CG							
	CH							


EXAMINER

R. Elmore

DATE CONSIDERED

2-13-2006

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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 501297.01	APPLICATION NO. 10/645,288
			APPLICANT(S) Ralph James	
			FILING DATE August 20, 2003	GROUP ART UNIT <del>2188</del> 2189

## INFORMATIONAL DISCLOSURE STATEMENT

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
R1E	AA	5,544,319	08/06/96	Acton et al.	395	200.07	
R1E	AB	5,822,255	10/13/98	Uchida	365	194	
R1E	AC	6,033,951	03/07/00	Chao	438	253	
R1E	AD	6,079,008	06/20/00	Clery, III	712	11	
R1E	AE	6,392,653 B1	05/21/02	Malandain et al.	345	501	
R1E	AF	6,636,110 B1	10/21/03	Ooishi et al.	327	565	
	AG						
	AH						
	AI						
	AJ						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AK							
	AL							
	AM							
	AN							
	AO							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	
	AQ	
	AR	

EXAMINER <i>R. Elmore</i>	DATE CONSIDERED 2-13-2006
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FORM PTO-1449 (REV. 7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. 501297.01	APPLICATION NO. 10/645,288
<b>INFORMATION DISCLOSURE STATEMENT</b> (Use for TRADEMARKS if necessary)		APPLICANT(S) Ralph James	
		FILING DATE August 20, 2003	GROUP ART UNIT <del>2185</del> 2189

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
R/E	AA	4,045,781	08/30/77	Levy et al.	364	200	
R/E	AB	5,479,370	12/26/95	Furuyama et al.	365	189.12	
R/E	AC	5,729,709	03/17/98	Harless	395	405	
R/E	AD	5,875,454	02/23/99	Craft et al.	711	113	
R/E	AE	6,186,400 B1	02/13/01	Dvorkis et al.	235	462.45	
R/E	AF	6,243,831 B1	06/05/01	Mustafa et al.	714	24	
R/E	AG	6,256,692 B1	07/03/01	Yoda et al.	710	104	
R/E	AH	6,438,668 B1	08/20/02	Esfahani et al.	711	165	
R/E	AI	6,681,292 B2	01/20/04	Creta et al.	711	119	
	AJ						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AK							
	AL							
	AM							
	AN							
	AO							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

R/E	AP	"Free On-Line Dictionary of Computing" entry 'Flash Erasable Programmable Read-Only Memory, online May 17, 2004 [http://foldoc.doc.ic.ac.uk/foldoc/foldoc.cgi?flash+memory]
	AQ	

EXAMINER R. Elmore	DATE CONSIDERED 2-13-2006
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